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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

RECEIVED 1 5 OCT 2004 WIPO PCT

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference		0.31.00.0	m				
PAKIST03142	FOR FURTHER ACTIO	FURTHER ACTION SeeNotificationofTransmittalofInternationalPreliminary Examination Report (Form PCT/IPEA/416)					
International application No.	International filing date(day/		Priority date (day/month/ye	•			
PCT/KR2003/001443	21 JULY 2003 (21.07.		20 JULY 2002 (20.07.200)2)			
International Patent Classification (IPC) or national classification and IPC							
IPC7 A61K 47/44							
Applicant							
KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY et al							
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of 4 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule						
	he Administrative Instructions		nons made before this Attu	iorny (see Ruie			
These annexes consist of a total ofsheets.							
3. This report contains indications relating to the following items:							
I X Basis of the report	I X Basis of the report						
П Priority	II Priority						
III Non-establishment	of opinion with regard to nov	elty, inventive step	and industrial applicability				
IV Lack of unity of in	IV Lack of unity of invention						
	nt under Article 35(2) with regnations supporting such staten		entive step or industrial appli	cability;			
VI Certain documents							
VII Certain defects in							
VIII Certain observations on the international application			•				
Date of submission of the demand Date of completion of this report							
Date of submission of the demaind		Date of completion	or this report				
19 FEBRUARY 200	4 (19.02.2004)	06 ОСТОВ	ER 2004 (06.10.2004)				
Name and mailing add and MDD AGOD							
Name and mailing address of the IPE	Authorized officer		与目前				
920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea		LEE, Mi Jeon	g				
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International aplication No.

PCT/KR2003/001443

I. :	Basis	s of the report	
1.	With	regard to the elements of the international application:*	
	X	the international application as originally filed	
		the description:	, as originally filed
		pagespages	, filed with the demand
		pages, filed with the letter of	
		the claims:	i-i-ally 6104
		pages, as amended (together with any	, as originally filed statment) under Article 19
		pages	, filed with the demand
		pages, filed with the letter of	
		the drawings: pages	, as originally filed
		pages	, filed with the demand
		pages, filed with the letter of	
		the sequence listing part of the description:	as originally filed
			, filed with the demand
		pages, filed with the letter of	
2.	the The X	th regard to the language, all the elements marked above were available or furnished to this Authority international application was filed, unless otherwise indicated under this item. ese elements were available or furnished to this Authority in the following language	which is .1(b)). ination(under Rules 55.2 and/ lication, the international
4		been furnished. The amendments have resulted in the cancellation of: the description, pages the claims. Nece	
		the claims, Nos the drawings, sheet	
5.			
		This report has been established as if (some of) the amendments had not been made, sinc go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	te they have been considered to
	in	eplacement sheets which have been furnished to the receiving Office in response to an invitation to this opinion as "originally filed." and are not annexed to this report since they do not contained 70.17).	under Article 14 are referred to in amendments (Rules 70.16
	** A1	ny replacement sheet containing such amendments must be referred to under item I and annexed	to this report.

INTERNATIONAL PRELIMINARY EXAMINATION

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٧.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1 - 58	YES
		Claims		N0
	Inventive step (IS)	Claims	1 - 58	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1 - 58	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

The following documents are referred to here for the purpose of this report:

D1: KR 01-100194 (14 Nov. 2001)

D2: WO 00/33816 A1 (10 Dec. 1999)

D3: Eur. J. Pharm. Sci. Vol.6(3), pp.231-239 (1998)

1. Novelty

The present invention relates to a novel mucoadhesive composition for solubilization of water-insoluble drugs comprising monoglycerides, oil, optionally emulsifiers and a preparation method thereof.

- D1 discloses a mucoadhesive composition for solubilization of water-insoluble drugs comprising monoglycerides, emulsifiers, optionally organic solvents.
- D2 discloses a delivery formulation for administration to a mucous membrane comprising a particulate material to be delivered to the membrane in a matrix containing amphiphilic substances such as monoglycerides.
- D3 discloses that monoglycerides are capable of forming liquid crystals and they have been identified as potential bioadhesive substances.
- D1 differs from the present invention in that the composition of D1 does not comprise oil as an essential element.
- D2 differs from the present invention in that there is no oil and no emulsifiers in the composition of D2.
- D3 just describes the mucoadhesive properties of systems based on monoglycerides.

Therefore, claims 1-58 of the present invention are considered to be novel over D1-D3 [Article 33(2) PCT].

2. Inventive Step

D1 seems to be the closest prior art to the present invention. However, D1 does not comprise oil as an essential element unlike the present invention and it is not easily expectable to (Continued on Supplemental Sheet.)



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Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient)						
Continuation of:						
Box V.						
those who skilled in the art to replace an organic solvent with oil. Therefore, claims 1-58 of the present invention are considered to involve an inventive step over D1-D3 [Article 33(3) PCT].						
3. Industrial Applicability						
The subject-matter of claims 1-58 appears to be industrially applicable [Article 33(4) PCT].						
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